

INTELLIGENT CLIENT-SIDE FORM FILLER

ABSTRACT

5 Client side program code examines electronic documents such as web pages and
automatically fills out fields of forms contained in the document with the appropriate data
from a user profile, without requiring prior mapping or examination of the form. The
application maps user data to the appropriate form field by examining label text on the
form as the user sees it, *i.e.* text that is visually nearest the field. For fields lacking labels,
10 the application examines the field context to determine the required data. To enter the
information in the correct format, the application parses visual hints concerning, for
example, the date format provided to the user and formats the data accordingly. In the
absence of any usable visual cues or contextual information, the program code parses
the form's underlying markup code.